



Facilities Sustainment, Restoration and Modernization Study (MID 909)





OSD Study Objectives



- Independent, comprehensive survey of fuel facilities worldwide that are currently storing and/or distributing DLA “*capitalized*” fuels for which DLA has SRM responsibility in order to determine and/or identify:
 - Current operational status & condition
 - Facility readiness
 - Compliance with US and Foreign Regulatory governing standards
 - Facility upgrade (MR&E) requirements
 - Facility demolition and replacement (MILCON) requirements
- Study commences FY04 and concludes FY05
- Capitalized Sites: 550 store DLA owned product



Agencies



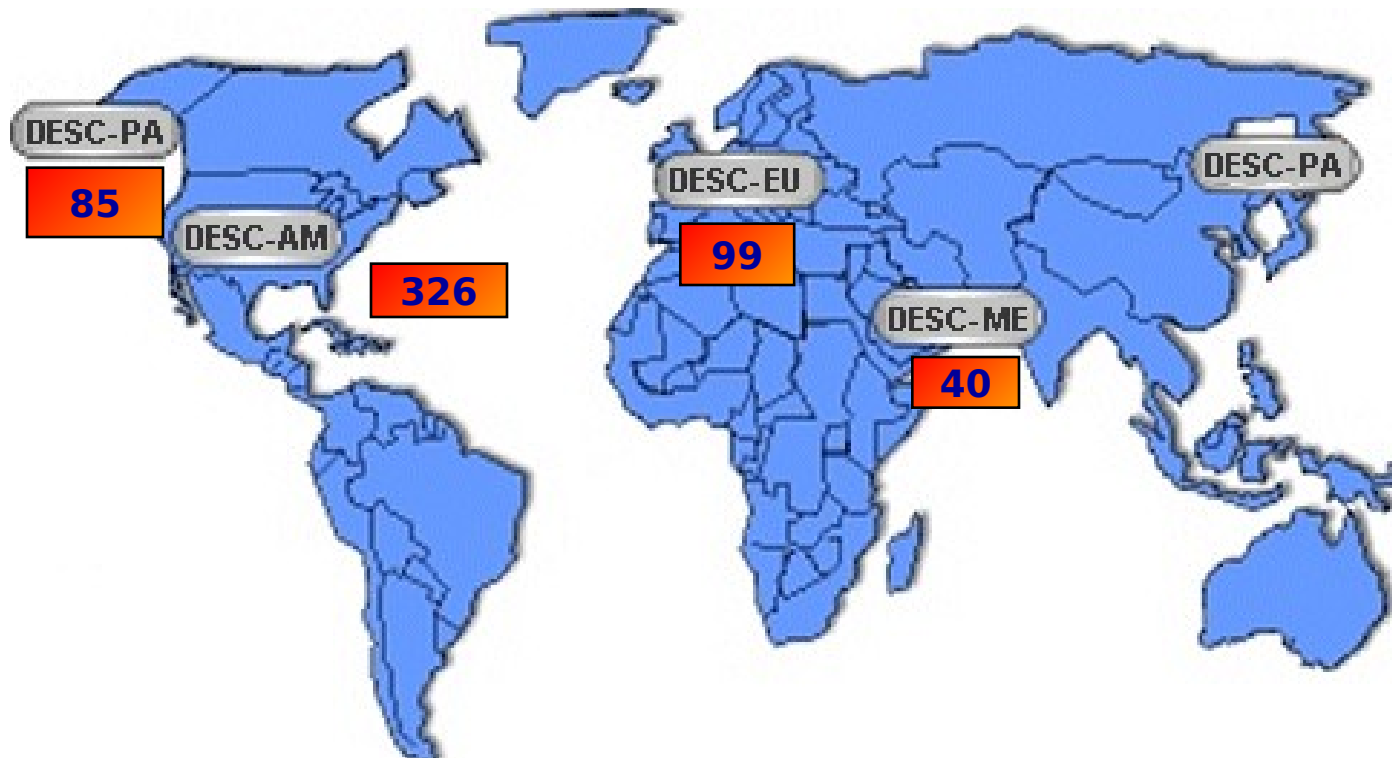
- Office of the Secretary of Defense (DUSD/I&E)
 - SRM website:
<http://www.acq.osd.mil/ie/irm/index.html>
- Defense Logistics Agency
 - Defense Energy Support Center (Lead Agency)
- Service Control Points (SCPs)
 - Army Petroleum Center
 - Air Force Petroleum Office
 - Naval Operational Logistics Support Center
 - HQ USMC Installations & Logistics
- Contractor
 - SHAW Group



Worldwide Facilities



Capitalized Facilities World-Wide by Defense Energy Region



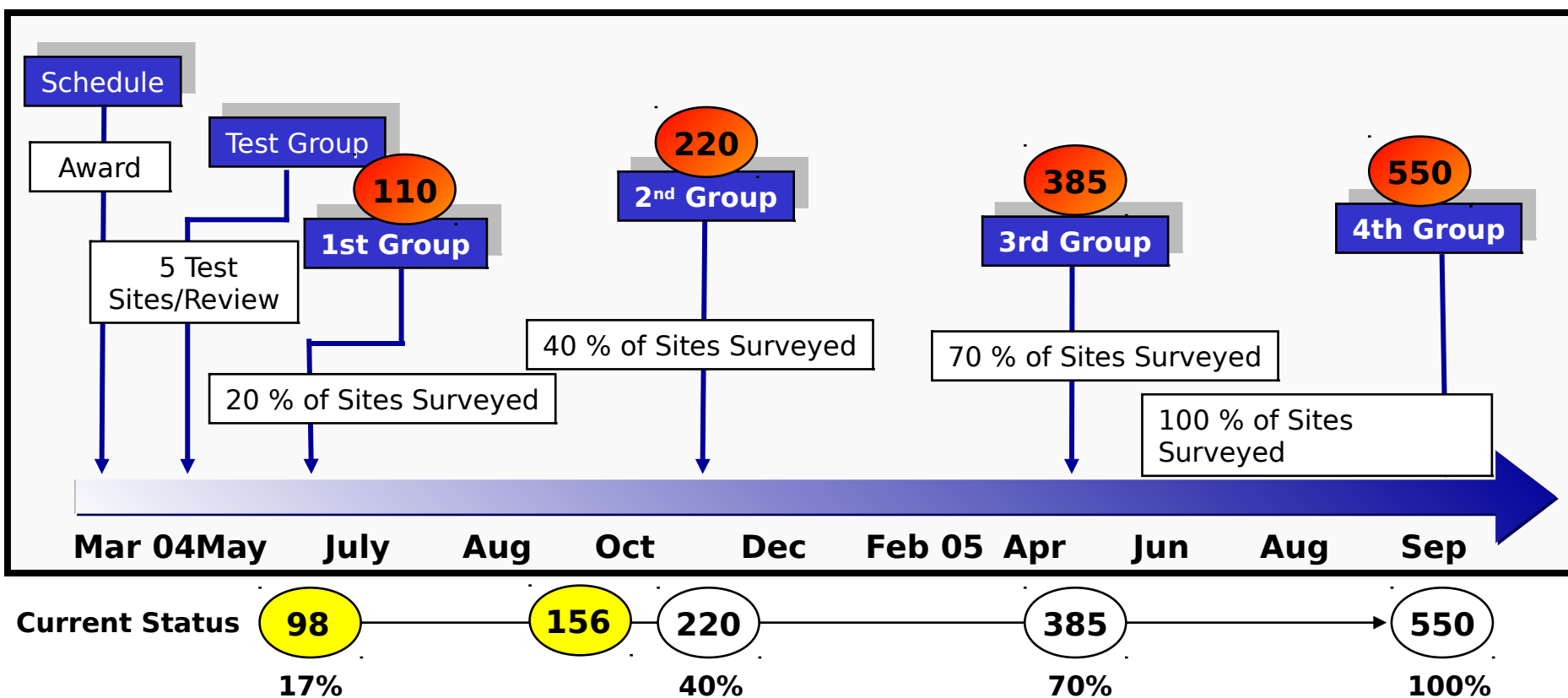
(550 Facilities Store DLA-Owned Product)



Program Time Line



4 Regions World-Wide (550 Sites)



Note: August 1, 2005 Anticipated Early Finish Date



Current Status

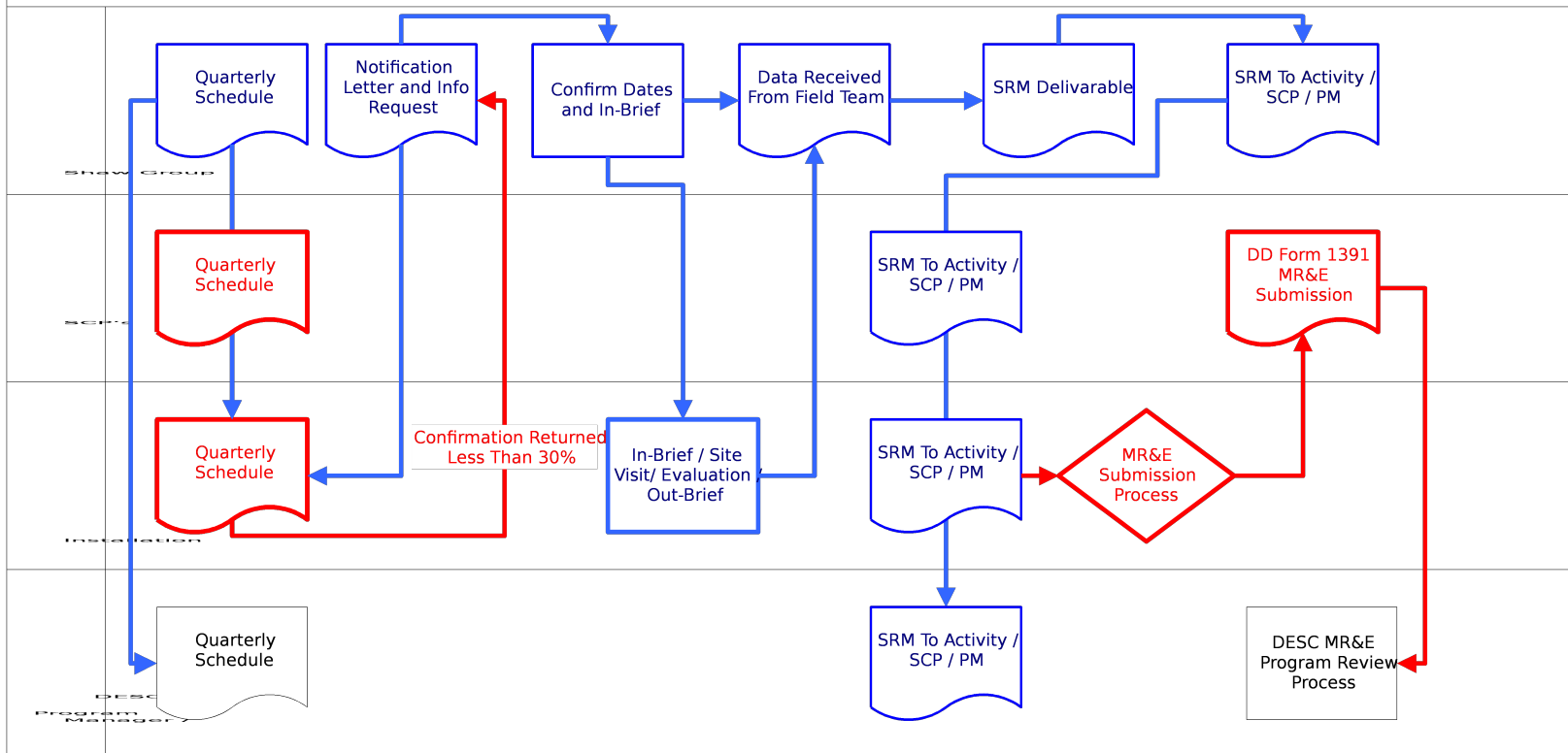


Updated "Breakdown of Site Visits": as of 3 Sept 2004

	3 Sept 2004 (153 Sites)		28% of 550	550	100%
ARMY		60	26.43%	227	41.25%
	Active	39	25%	156	28.35%
	ARNG	21	29.58%	71	12.90%
NAVY		22	26.19%	84	15.25%
USMC		9	47.37%	19	3.50%
USAF		59	28.78%	205	37.30%
	Active	19	18.62%	102	18.55%
	ANG	35	38.88%	90	16.35%
	AFRES	5	38.46%	13	2.40%
DESC		3	20%	15	2.75%



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SHAW Group



Data Collection Process (Product Receipt and Storage)



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PRODUCT RECEIPT

- Receipt Modes
- **Pipeline**
 - Dedicated
 - Joint Use
 - Date Manufactured
 - API 570 Inspection
 - Coated System
 - Double Wall
 - Cathodic Protection
- **Pier**
 - Dedicated
 - Joint Use
 - Year Constructed
 - Type
- **Tank Truck** (PC&S, etc)
- **Tank Car** (PC&S, etc)
- **Other / Environmental**

FACILITY BORDER

BULK STORAGE

- **Capitalized**
- Ownership (Service)
- Type of Tank
- Date Manufactured
- API 653 Inspection
- Coating
- Containment
- Ancillary Items / Environmental
- Existing MR&E / MILCON Project
- Requirement / Utilization

LAB

- GOGO & GOCO Lab
- Equipment
- Slop Tank / Piping
- Building Construction
- Date Constructed

PUMP HOUSE

PRODUCT TRANSFER P/L

OPERATIONS

- **Type of P/L**
- Date Constructed
- Distance
- Rated Pressure
- Operating Pressure
- Normal / Maximum Through Put (BBL/PH)
- API 570 Inspection
- Coated
- Double Wall
- Cathodic Protection
- **Valves (MOV/Manual)**
 - Valve Type (Gate, Plug, Twin Seal)
- Ancillary Items / Environmental

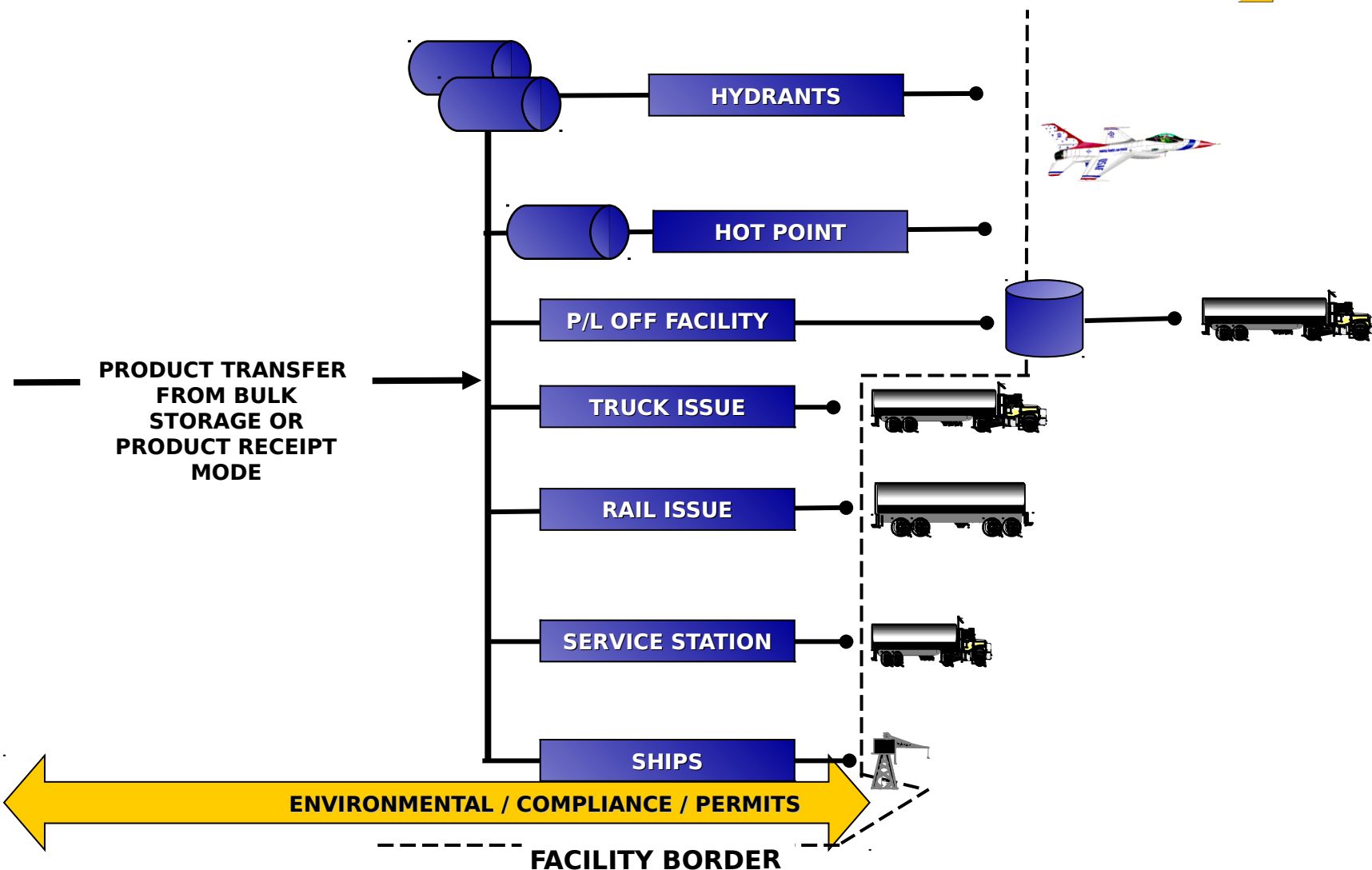
ENVIRONMENTAL / COMPLIANCE / PERMITS



Data Collection Process (Distribution Modes)



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Summary of FCE Process



- Pre-Planning
 - Letter & Questionnaire to be Provided to Each Base by Service Control Points
 - Initial Contact by Shaw-Denver for Review of Questionnaire, Confirmation of Dates
 - Contact by Shaw Team Leaders
~ 1 Week in advance of FCE



Summary of FCE Process (Cont.)



- In Brief
 - Review SRM Introduction (MS PowerPoint)
 - Review and Redline RPI Cards (Provided by Base)
 - Fill in 4 DEFWEB Forms



Summary of FCE Process (Cont.)



- In Brief (Cont'd)
 - Complete Initial Checklist
 - Develop Narrative of System
 - Obtain Drawings from Base
 - Fill in 9 Categories in Table Form
 - * Identify Mission and Changes < 3 Years
 - * Discuss Identified Projects (funded & not)
 - * Discuss and Review Permits, Violations, Spill Reports, etc.
 - Initial Checklist is Minutes of Meeting



Summary of FCE Process (Cont.)



- Field Walk
 - * Complete Field Checklists developed to identify API, NFPA, federal, and state compliance issues
 - Fill in RPI Data Gaps Identified with POCs in In Brief Meeting



Facility Assistance



- **Facility Maintenance Reports/Real Property Records**
 - API 653, 570 Inspections, Hydrostatic, Cathodic Protection, etc
 - Facility Inventory Records
- **Facility Access**
 - Base Access Procedures, Escort, Restricted Area Access
- **Current MR&E Projects (Work Scope)**
 - Active (Approved and/or Under Construction)
 - Active Under Review (Review Scope)
 - Disapproved
- **Federal / State Environmental Permits**
 - Storm Water Discharge
 - Spill Plans
 - Compliance Issues
 - Facility Emergency Response Plans
- **Current Facility Assessments / Mission**
 - Previous Studies and/or Mission Assessments
- **Base Environmental/CE/DPW/Master Planner**
 - Future Facility Plans and/or Changes
 - Base Closure and/or Realignment
 - Existing Environmental Issues

**Contractor
Submits
Request To
Facility 30 Days
In Advance
Requesting
Access To The
Facility And
Documentation,
Records,
Drawings, Etc.**



Summary of FCE Process (Cont.)



- Out Brief
 - Prior to Meeting with POCs, develop Out Brief Form with List of Deficiencies
 - Meet with POCs and review the list for completeness
 - Amend List if needed, Prepare Minutes of Discussion



Deliverable Summary



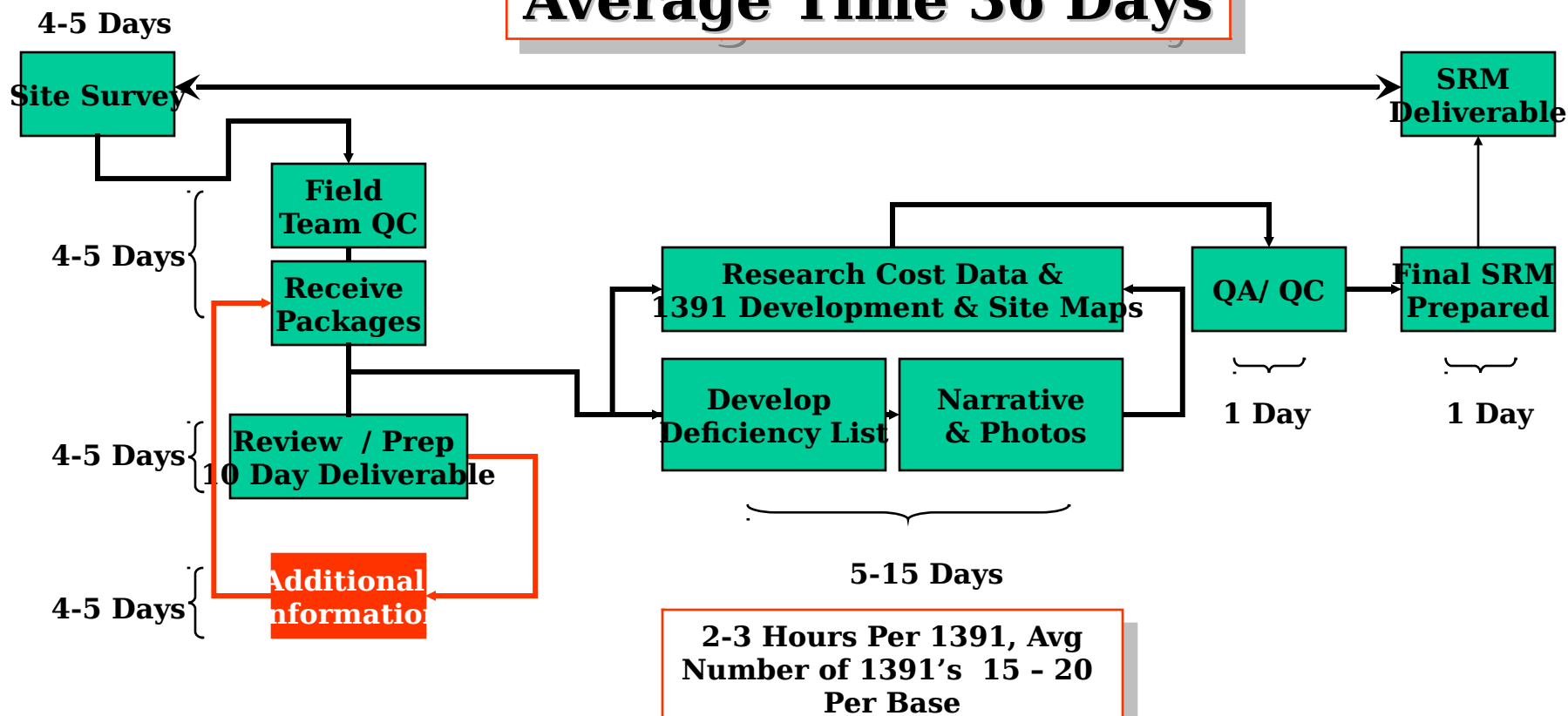
- Final SRM Deliverable
 - Text Report (MS Word)
 - Location Map (Image)
 - POL System Overview Drawing (Image)
 - Photos in Support of 1391s (Image)
 - Cost Estimate Details (Image)
 - 1391s (MS Excel)
 - Attachment 10 Summary (MS Excel)
- Format is CD-Rom, 1 Paper to DESC



Timeline (Survey - Deliverable)



Average Time 36 Days





Deficiency Documentation



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Deficiency Identified



Deficiency Documented

ATTACHMENT 10 REPORT				DATE	
Report the Following Data for Each Site					
CONTRACTOR Shaw Environmental, Inc.		JOB NUMBER J00001		DATE 4/2/2004	
MILITARY SERVICE INSTALLATION NUMBER M5001		DLA SITE CODE (P/N) CEC			
ASSIGNED UNDER DEFICIENCY IDENTIFICATION CIC001		COMPONENT CODE USE		CONDITION CODE EUP 001	
DESCRIPTION OF DEFICIENCY Chain valves are damaged and worn. They are also located in an area where they are not accessible. The existing fire suppression system is questionable for emergency use. Loading arms, leaks and are non-functional. OGM manuals need to be replaced.		LIST/REASON The split containment around the drainage valves, which hang over the open water, needs to be installed, removing the 1415 will better the overall operation of the pier and address safety, environmental compliance and operational deficiencies. The current piping are worn and damaged and cause damage to vessels. The fire suppression system is questionable for use due to wear and corrosion. The loading arms are non-functional and are needed to support the mission. M5, HCBK 1008, DOD 424.20n 4C2FR 112, and API Standard Requirements.			
PLAN VIEW DRAWINGS PROVIDED? No		SYSTEM DRAWINGS PROVIDED? No		P&ID PROVIDED? No	
REQUESTED INFORMATION AVAILABLE FOR REVIEW NOT AVAILABLE FOR REVIEW LIST EACH These items fall under different requirements. The deficiencies are considered repair, maintenance, and minor construction requirements. The cost information back-up paper work is provided for review.					
CORRECTIONS The estimated cost to correct the deficiencies are: \$22.0K. 1) Install New Split Containment Drainage Valves for \$8.0K. 2) Replace damaged Marine Hoist Bumper Pilings for \$5.0K. 3) Install Fire Fighting Water Line for \$6.0K. 4) Replace Fuel Loading Arm for \$8.0K. 5) OHS for \$14.0K.					
Prepared: _____ Date: _____					
SHEET 1 OF 1					

DD Form 1391 & Cost Estimate

1. COMPONENT		2. DATE																																																			
DLA/JAX001 <td colspan="2">FY 2004 MILITARY CONSTRUCTION PROJECT DATA</td>		FY 2004 MILITARY CONSTRUCTION PROJECT DATA																																																			
3. INSTALLATION AND LOCATION Jacksonville FSC Station (Northside), Jacksonville, FL		4. PROJECT TITLE Upgrade, Strip, and Coating Of The Pipeline, Valves and Pump Stations																																																			
5. PROGRAM ELEMENT MMR		6. CATEGORY CODE JAX00X																																																			
7. PROJECT NUMBER JAX00X		8. PROJECT COST (\$000) \$-Prepar \$38,200 \$-Maintenance \$100,400																																																			
9. COST ESTIMATE																																																					
<table border="1"><thead><tr><th>ITEM</th><th>U/M</th><th>QUANTITY</th><th>UNIT COST</th><th>COST (\$000)</th></tr></thead><tbody><tr><td>Upgrade, Strip, & Coating Of The Pipelines, Valves, & Pump Stations</td><td>LS</td><td>1</td><td>\$38,200</td><td>\$38.2</td></tr><tr><td>Repair, Strip, & Paint The Two Stripping Pumps at the Pier Strip, and Coating All Aboveground Pipelines, Valves and related components in the FSC Area</td><td>LS</td><td>1</td><td>\$100,400</td><td>\$100.4</td></tr><tr><td>Regular Subtotal</td><td></td><td></td><td></td><td>\$38.2</td></tr><tr><td>Maintenance Subtotal</td><td></td><td></td><td></td><td>\$100.4</td></tr><tr><td>Construction Subtotal</td><td></td><td></td><td></td><td>0</td></tr><tr><td>Contingency (Max 3%)</td><td></td><td></td><td></td><td>\$13.6</td></tr><tr><td>SFH (Max 5%)</td><td></td><td></td><td></td><td>\$6.9</td></tr><tr><td>Grand Total</td><td></td><td></td><td></td><td>\$157.6</td></tr><tr><td>Design (Max 10% of Grand Total)</td><td></td><td></td><td></td><td>\$15.7</td></tr></tbody></table>				ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)	Upgrade, Strip, & Coating Of The Pipelines, Valves, & Pump Stations	LS	1	\$38,200	\$38.2	Repair, Strip, & Paint The Two Stripping Pumps at the Pier Strip, and Coating All Aboveground Pipelines, Valves and related components in the FSC Area	LS	1	\$100,400	\$100.4	Regular Subtotal				\$38.2	Maintenance Subtotal				\$100.4	Construction Subtotal				0	Contingency (Max 3%)				\$13.6	SFH (Max 5%)				\$6.9	Grand Total				\$157.6	Design (Max 10% of Grand Total)				\$15.7
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10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project will require the complete removal and repair of the two stripping pumps at the pier. It also includes the complete removal and repair of all aboveground piping, valves, and related components in and around the FSC area. The entire system is corroded and needs to be cleaned off and replaced with a three primer system followed with a two coat top-coat system.																																																					
11. REQUIREMENT: As Required.																																																					
PROJECT: Because of the age and unavailability of the two stripping pumps at the pier this project will replace the two pumps with two new stripping pumps. All of the aboveground piping in the FSC area is corroded and needs to be cleaned and replaced with a three primer system and a two coat top-coat system.																																																					
REQUIREMENT: This project will replace the worn out stripping pumps that are out of service and unusable. There is excessive corrosion on the pumps and piping that needs to be removed and replaced to prevent deterioration of the system components. 40 CFR 112 requires the proper condition to maintain the systems in good condition and serviceable.																																																					
CURRENT SITUATION: Currently the stripping pumps are out of service and the piping is exhibiting age and corrosion on the valves and piping. The stripping pumps are needed for future pier loading and off-loading operations. Off-loading operations are being accomplished with other means until the system can be repaired and painted.																																																					
IMPACT IF NOT PROVIDED: Failure to provide the needed repair and coating protection of the pipes and valves will cause continued failure of system components. The stripping pumps have been removed from service and make shift crews for stripping operations are continuing. This creates a hazardous situation for operation personnel and damage to the system. Continued use of the system in this manner will cause large failures to the system and may cause the system to go down and prevent loading and off-loading operations of ships to stop.																																																					
COMPLIANCE: This project will comply with: <ul style="list-style-type: none">- State and Federal Environment Governing Standards- MIL PERM 1022A, Petroleum Pools Facilities- 40CFR112, Oil Pollution Prevention- API Standards for Fuel Receipt and Tank Facility Management- NFPA 30																																																					
BASE APPROVAL: _____ PREVIOUS EDITIONS MAY BE REUSED INTERNALLY PAGE NO. 1 of 1																																																					
DD Form 1391, DEC 76 (Complete your data)																																																					

Project Cost, Documentation & Facility Assessment Ready For Service Review & Submission

SRM Facility Report





Shaw Internal QA/QC Summary



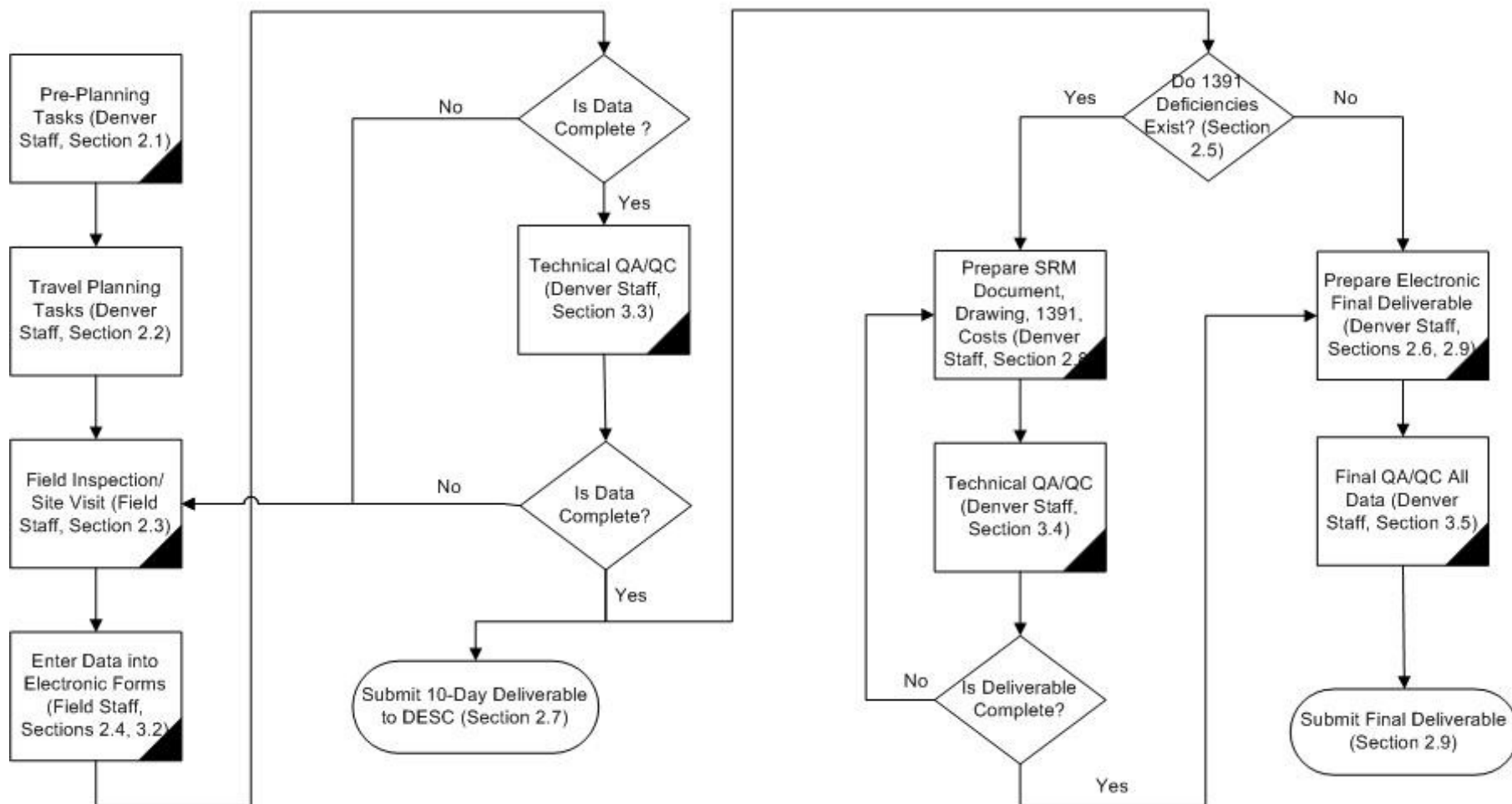
- Management Plan quality steps:
 - Pre-Planning
 - Field Data Entry/Management
 - Completeness Review
 - Technical QC - Deficiencies & 1391s
 - Final Deliverable QC
- QA/QC Plan - Peer Review Program
 - Anticipate 30 Sites
- QA/QC Plan - QA Surveillance
 - Anticipate 10 Sites, plus review of 30



Shaw Internal QA/QC Summary



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Test Site Findings / Trends



- **Compliance**

- API 653 Inspections (Tanks)
- API 570 Inspection (Pipelines)
- API 510 Inspections (Filter Separators)

- **Special Interest Items**

- API Compliant (Filter Separators)
- Spill Containment (Tanks, Refueler Parking, Fill Stands)
- Facility Maintenance

- **Real Property Records**

- Missing Records
- Incomplete Records
- Outdated Records

- **Environmental / Safety Issues**

- Spill Containment
- State Environmental Laws (Degrees of Variation State-to-State)





Summary - "What MID 909 IS"



- DESC-Capitalized Petroleum Fuel Facilities
- OSD-Directed Independent Evaluation for Sustainment, Restoration, & Modernization (SRM):
 - API compliance
 - NFPA compliance
 - Federal & State petroleum requirements
 - Federal & State environmental requirements
 - Real Property Inventory confirmation
 - MR&E requirements
 - Military Specification Guidelines
- Provide Cost and Trend Information
 - Programmatic Planning at DLA/DESC





Summary - “What MID 909 IS NOT”



- NOT a BRAC Study
- NOT an “Audit” or an “Inspection”
- NOT an Operational Analysis
- NOT an Optimization Analysis
- NOT a Force Protection Analysis





Questions / Comments